VGN-FJ10B/FJ90PS/FJ90S
VGN-FJ150/FJ150F/FJ170/FJ170P/FJ170Q/FJ180P
VGN-FJ1S/FJ1SR/FJ1Z
VGN-FJ55L/FJ56C/FJ56G/FJ57C/FJ57GP/FJ57LP/FJ57SP/FJ57TP/FJ58C/FJ58GP/FJ58SP

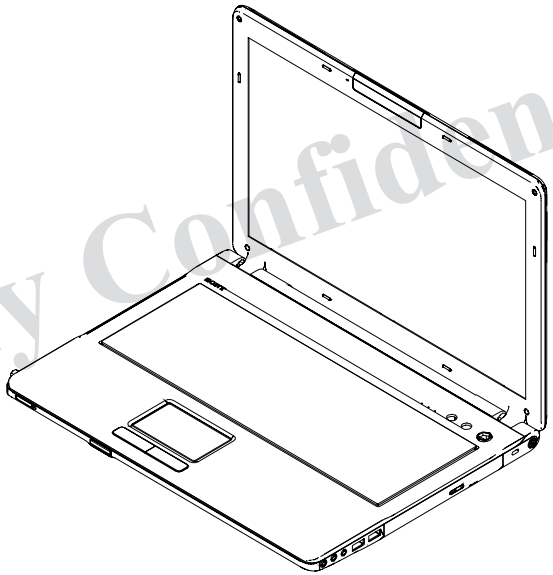
SERVICE MANUAL

Ver. 2 2005K

Revision History

Area	Model	Lineup	
Japanese	Japanese	VGN-FJ10B	
		VGN-FJ90PS*	
		VGN-FJ90S*	
American	US Canadian	VGN-FJ150/W	
		VGN-FJ170/B	
		VGN-FJ170P/B	
		VGN-FJ170Q/B	
		VGN-FJ180P/G	⚠ [MA]
		VGN-FJ180P/L	⚠ [MA]
		VGN-FJ180P/R	⚠ [MA]
		VGN-FJ180P/W	
	Latin	VGN-FJ150F	
European	AEP/UK	VGN-FJ1S/W	
		VGN-FJ1SR/B	⚠ [MA]
		VGN-FJ1Z/W	
Asian/Oceania/ South Africa	International	VGN-FJ55L	⚠ [MA]
		VGN-FJ56G	⚠ [MA]
		VGN-FJ57GP	⚠ [MA]
		VGN-FJ57LP	⚠ [MA]
		VGN-FJ57SP	⚠ [MA]
		VGN-FJ57TP	⚠ [MA]
		VGN-FJ58GP	⚠ [MA]
		VGN-FJ58SP	⚠ [MA]
	Chinese	VGN-FJ56C/W	⚠ [MA]
		VGN-FJ57C/B	⚠ [MA]
		VGN-FJ57C/G	⚠ [MA]
		VGN-FJ57C/L	⚠ [MA]
		VGN-FJ57C/R	⚠ [MA]
		VGN-FJ57C/W	⚠ [MA]
		VGN-FJ58C/B	⚠ [MA]
		VGN-FJ58C/W	⚠ [MA]

* : CTO Model



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MEMORY STICK

i.LINK S400

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PERSONAL COMPUTER

SONY

9-876-434-02

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the ⚠ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANSCE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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History of the changes is shown as the "Revision History" at the end of this data.

変更履歴は,“Revision History”として,本データ末に記載してあります。

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VGN-FJ10B/FJ90PS/FJ90S (J)
VGN-FJ150/FJ150F/FJ170/FJ170P/FJ170Q/FJ180P (AM)
VGN-FJ1S/FJ1SR/FJ1Z (EU)
VGN-FJ55L/FJ56C/FJ56G/FJ57C/FJ57GP/FJ57LP/FJ57SP/FJ57TP/FJ58C/FJ58GP/FJ58SP (AO)

CHAPTER 1.
SPECIFICATIONS

1-1. Specifications

	J			AM					
Model	VGN-FJ10B	VGN-FJ90PS*	VGN-FJ90S*	VGN-FJ170P/B	VGN-FJ170/B	VGN-FJ150/W	VGN-FJ180P/G	VGN-FJ180P/L	VGN-FJ180P/R
CPU	CelM/Do/360/1.40GHz	PM/Do/780/2.26GHz or PM/Do/760/2GHz or PM/Do/740/1.73GHz or CelM/Do/360/1.40GHz	PM/Do/780/2.26GHz or PM/Do/760/2GHz or PM/Do/740/1.73GHz or CelM/Do/360/1.40GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/750/1.86GHz	PM/Do/750/1.86GHz	PM/Do/750/1.86GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM
Graphics	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated
LCD	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR
HDD	60GB	100GB or 80GB or 60GB or 40GB	100GB or 80GB or 60GB or 40GB	100GB	100GB	80GB	100GB	100GB	100GB
Memory Std	256MB(256MB/DDR2/400/SO-DIMMx1)	1GB(512MBx2) or 512MB(256MBx2) or 256MB(256MBx1)	1GB(512MBx2) or 512MB(256MBx2) or 256MB(256MBx1)	512MB(512MBx1)	512MB(512MBx1)	1GB(512MBx2)	512MB(512MBx1)	512MB(512MBx1)	512MB(512MBx1)
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
Optical	Combo/12.7/x24	Combo/12.7/x24 or SuperMulti/12.7/x8/+DL	Combo/12.7/x24 or SuperMulti/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL
Wireless LAN	802.11bg/Atheros/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI
AC adaptor	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A
Felica	○	○	○	×	×	×	×	×	×
Built-in Camera	○	○	○	○	○	○	○	○	○
Color Variation	White	Blue or Green or White or Red	Blue or Green or White or Red	Black	Black	White	Green	Blue	Red
OS	XP Home	XP Pro	XP Home	XP Pro	XP Home	XP Home	XP Pro	XP Pro	XP Pro
Office	XP Personal	XP Personal or XP Pro or None	XP Personal or XP Pro or None	None	None	None	None	None	None
Keyboard	Japanese Key Board	Japanese Key Board	Japanese Key Board	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board
							⚠1 [MA]	⚠1 [MA]	⚠1 [MA]

	AM					EU		
Model	VGN-FJ180P/W	VGN-FJ150F	VGN-FJ170Q/B			VGN-FJ1S/W	VGN-FJ1SR/B	VGN-FJ1Z/W
CPU	PM/Do/750/1.86GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz			PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM			Intel 915GM	Intel 915GM	Intel 915GM
Graphics	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated			Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated
LCD	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR			14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR
HDD	100GB	80GB	100GB			80GB	80GB	80GB
Memory Std	512MB(512MBx1)	1GB(512MBx2)	512MB(512MBx1)			512MB(512MBx1)	512MB(512MBx1)	1GB(512MBx2)
Memory Max	2GB	2GB	2GB			2GB	2GB	2GB
Optical	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL			DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL
Wireless LAN	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI			802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI
AC adaptor	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10			VGP-AC19V10	VGP-AC19V12	VGP-AC19V10
Battery	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A			VGP-BPS2A	VGP-BPS2A	VGP-BPS2A
Felica	×	×	×			×	×	×
Built-in Camera	○	○	○			○	○	○
Color Variation	White	Black	Black			White	Black	White
OS	XP Pro	XP Home	XP Home			XP Home	XP Home	XP Home
Office	None	None	None			None	None	None
Keyboard	English Key Board	-	-			-	-	-
							⚠1 [MA]	

・The trademarks of registered trademarks of above table, refer to page 2.
・The model that is accompanied by asterisk (*) is the CTO model.
・本表中の商標・登録商標については，2ページをご参照ください。
・機種名に（*）がつくものはCTOモデルです。

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	AO								
Model	VGN-FJ58C/B	VGN-FJ58C/W	VGN-FJ57C/B	VGN-FJ57C/G	VGN-FJ57C/L	VGN-FJ57C/R	VGN-FJ57C/W	VGN-FJ56C/W	VGN-FJ58GP
CPU	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	CeIM/Do/360/1.40GHz	PM/Do/740/1.73GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM
Graphics	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated
LCD	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR
HDD	60GB	60GB	40GB	40GB	40GB	40GB	40GB	40GB	60GB
Memory Std	512MB(512MBx1)	512MB(512MBx1)	256MB(256MBx1)	256MB(256MBx1)	256MB(256MBx1)	256MB(256MBx1)	256MB(256MBx1)	256MB(256MBx1)	512MB(512MBx1)
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
Optical	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	DVD+-RW/12.7/x8/+DL
Wireless LAN	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Atheros/mPCI	802.11bg/Intel/mPCI
AC adaptor	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A
Felica	×	×	×	×	×	×	×	×	×
Built-in Camera	○	○	○	○	○	○	○	×	○
Color Variation	Black	White	Black	Green	Blue	Red	White	White	White
OS	XP Home	XP Home	XP Home	XP Home	XP Home	XP Home	XP Home	XP Home	XP Pro
Office	None	None	None	None	None	None	None	None	None
Keyboard	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board	English Key Board

	AO						
Model	VGN-FJ58SP	VGN-FJ57GP	VGN-FJ57SP	VGN-FJ57LP	VGN-FJ57TP	VGN-FJ56G	VGN-FJ55L
CPU	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	CeIM/Do/360/1.40GHz	CeIM/Do/360/1.40GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM
Graphics	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated
LCD	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR	14.1/WXGA/EBR
HDD	60GB	60GB	60GB	60GB	60GB	40GB	40GB
Memory Std	512MB(512MBx1)	512MB(512MBx1)	512MB(512MBx1)	512MB(512MBx1)	512MB(512MBx1)	256MB(256MBx1)	256MB(256MBx1)
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB	2GB
Optical	DVD+-RW/12.7/x8/+DL	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	DVD+-RW/12.7/x8/+DL	Combo/12.7/x24
Wireless LAN	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Atheros/mPCI	802.11bg/Atheros/mPCI
AC adaptor	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A	VGP-BPS2A
Felica	×	×	×	×	×	×	×
Built-in Camera	○	○	○	○	○	×	×
Color Variation	White	White	White	White	White	White	White
OS	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Home	XP Home
Office	None	None	None	None	None	None	None
Keyboard	-	English Key Board	-	-	-	English Key Board	-

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・本表中の商標・登録商標については，2ページをご参照ください。

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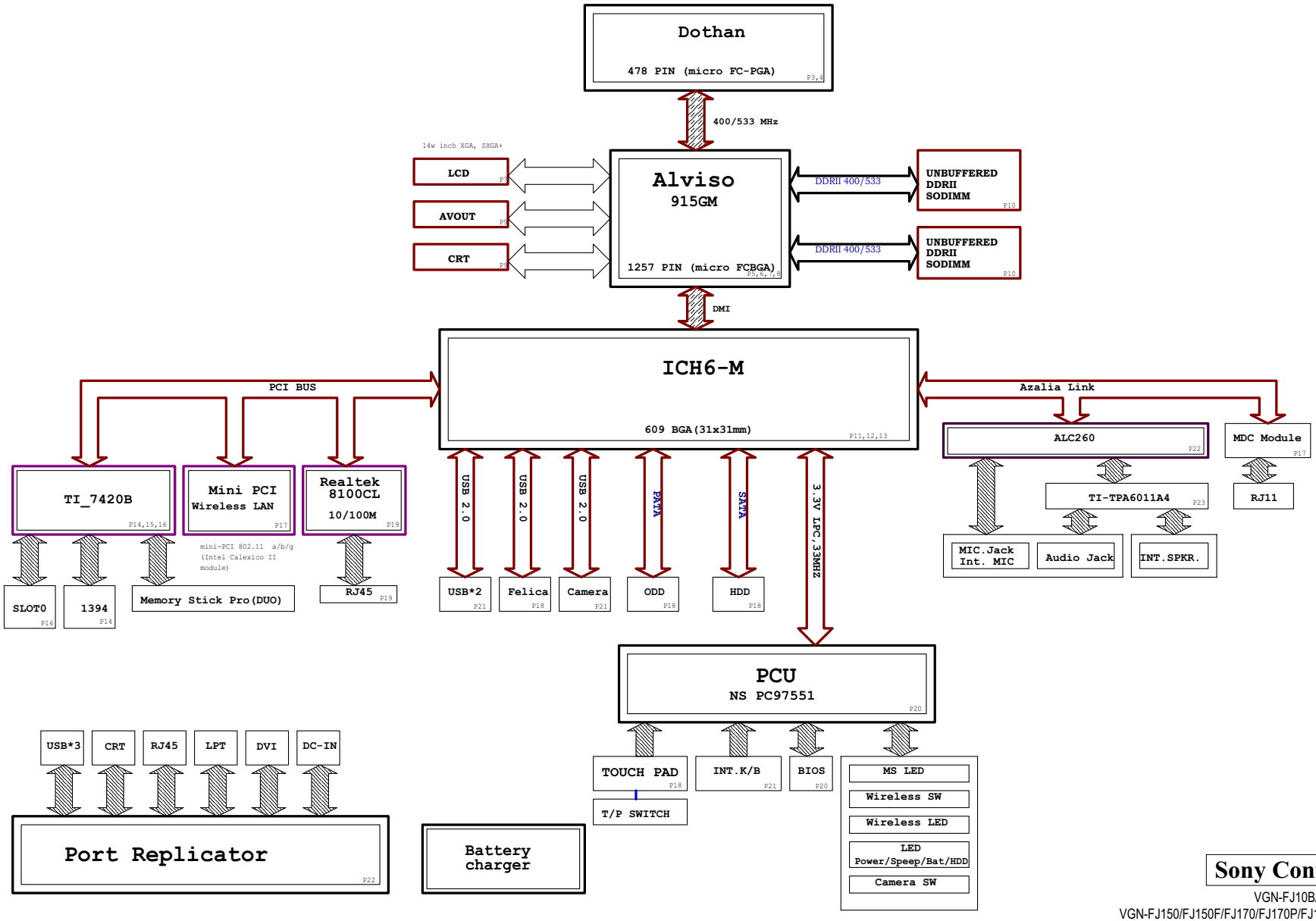
CHAPTER 2.
BLOCK DIAGRAM



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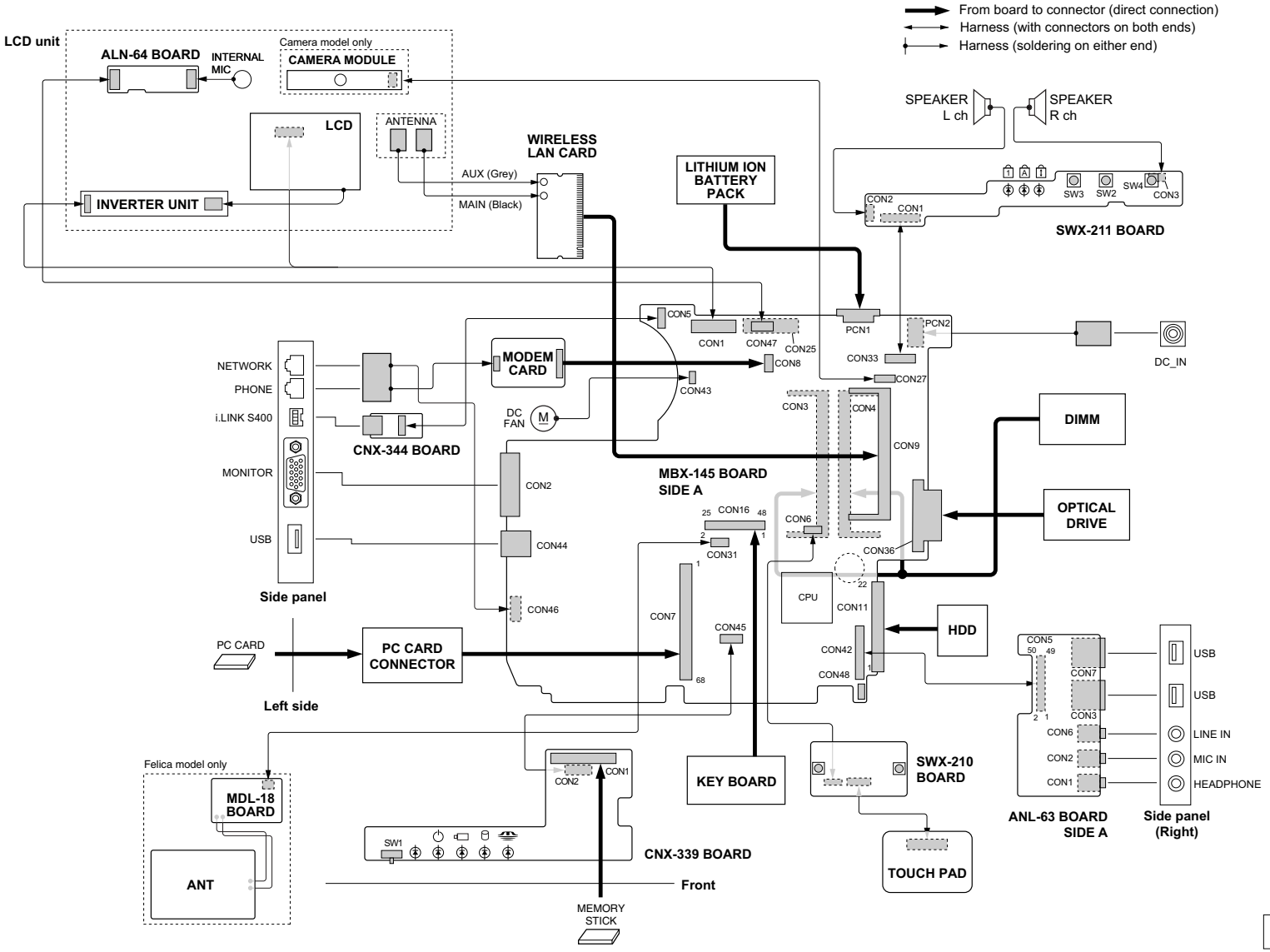
CHAPTER 3.
FRAME HARNESS DIAGRAM



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CHAPTER 4.
EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

- 分解図と部品表は，パームレスト，ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので，詳細は右下の一覧表を参照してください。

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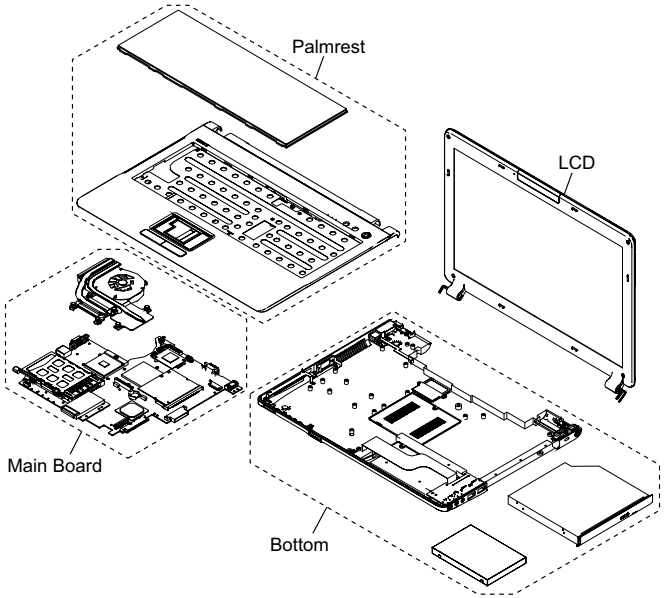

			Palmrest	Main Board	Bottom	LCD	Accessory
		FJ10B	P-1	M-1	B-1	L-1	A-1
	J	FJ90PS*	P-1	M-1	B-1	L-1	A-1
		FJ90S*	P-1	M-1	B-1	L-1	A-1
		FJ170P/B	P-1	M-1	B-1	L-1	A-1
		FJ170/B	P-1	M-1	B-1	L-1	A-1
		FJ150/W	P-1	M-1	B-1	L-1	A-1
⚠ [MA]	AM	FJ180P/G	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ180P/L	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ180P/R	P-1	M-1	B-1	L-1	A-1
		FJ180P/W	P-1	M-1	B-1	L-1	A-1
		FJ150F	P-1	M-1	B-1	L-1	A-1
		FJ170Q/B	P-1	M-1	B-1	L-1	A-1
	EU	FJ1S/W	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ1SR/B	P-1	M-1	B-1	L-1	A-1
		FJ1Z/W	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ58C/B	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ58C/W	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57C/B	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57C/G	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57C/L	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57C/R	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57C/W	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ56C/W	P-1	M-1	B-1	L-1	A-1
⚠ [MA]	AO	FJ58GP	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ58SP	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57GP	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57SP	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57LP	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ57TP	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ56G	P-1	M-1	B-1	L-1	A-1
⚠ [MA]		FJ55L	P-1	M-1	B-1	L-1	A-1

* : CTO model

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked " $ " are the High Value Modules (HVM).
- The parts marked " # " are the parts on which barcode label is attached. For the barcode label, refer to CHAPTER 5.
- The parts marked "&" are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.

【使用上の注意】

- *印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合，上部記載部品をメイン部品として使用してください。
- 部品名称の前に$印のついた部品は，High Value Module（HVM）です。
- 商品名称の前に#印のついた部品は，バーコードラベル貼付部品です。
  バーコードラベルについてはCHAPTER 5を参照してください。
- 部品名称の前に&印のついた部品は，お客様窓口などでも交換可能なCustomer Replacable Part（CRP）です。
  特に<&>のついた部品は，使い分けが必要な部品ですので，分解図でCustomer Replacable Parts対象部品か，対象外部品かを必ず御確認ください。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。従って交換時は，必ず指定の部品を使用して下さい。

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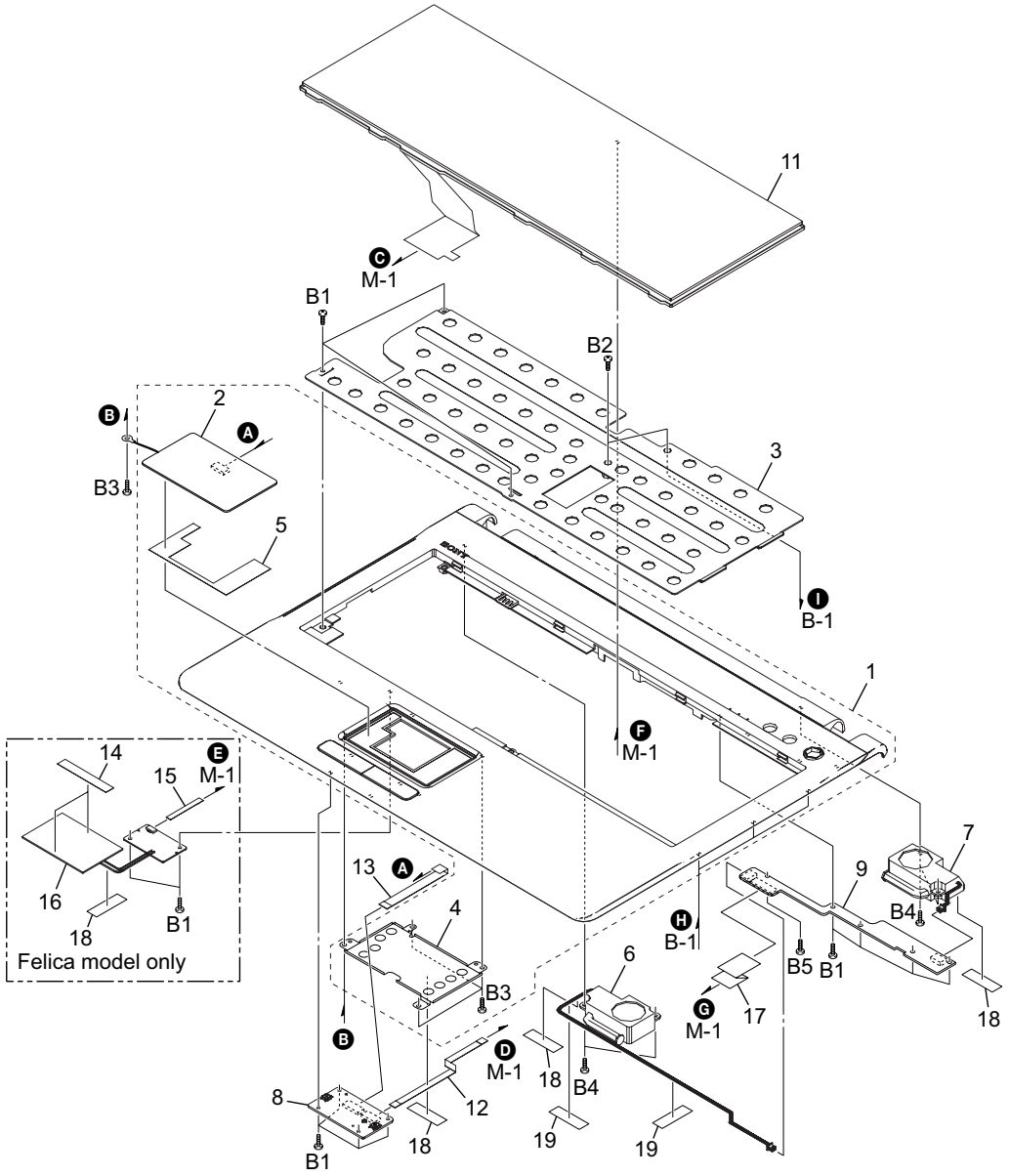
VGN-FJ10B/FJ90PS/FJ90S (J)
VGN-FJ150/FJ150F/FJ170/FJ170P/FJ170Q/FJ180P (AM)
VGN-FJ1S/FJ1SR/FJ1Z (EU)
VGN-FJ55L/FJ56C/FJ56G/FJ57C/FJ57GP/FJ57LP/FJ57SP/FJ57TP/FJ58C/FJ58GP/FJ58SP (AO)

P-1. Palmrest



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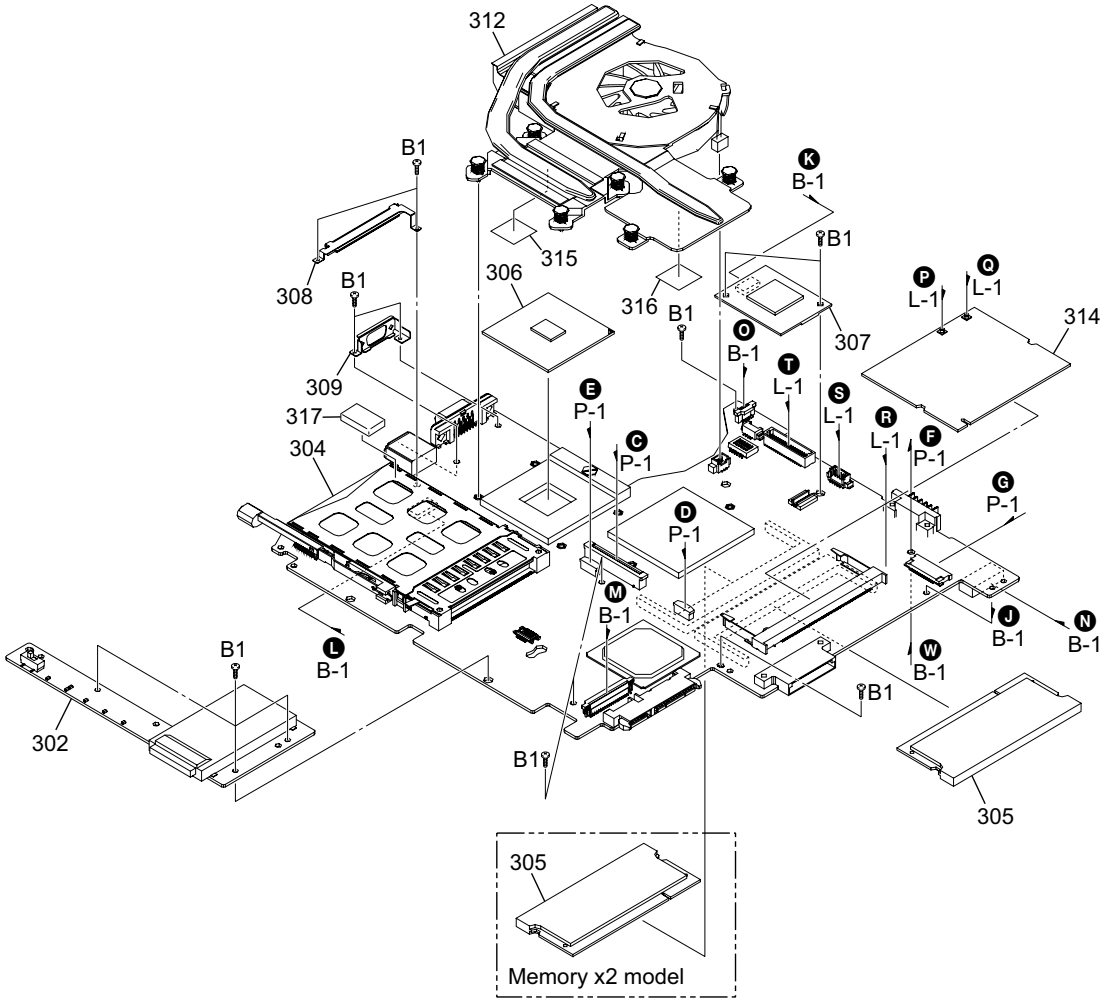
P-1. Palmrest

Ref. No.	Part No.		Description
3	2-650-054-01		RD1 KEYBOARD BRACKET
* 4	2-655-877-01		RD1 TOUCHPAD BRACKET
5	2-650-050-01		RD1 TOUCHPAD TAPE
6	1-826-264-11		SPEAKER(2.0CM,WITH BOX,LCH)
7	1-826-264-21		SPEAKER(2.0CM,WITH BOX,RCH)
8	A-1143-866-A	$	COMPLETE BOARD SWX-210
9	A-1143-867-A	$	COMPLETE BOARD SWX-211
12	A-1154-028-A		FFC TOUCH PAD SW-MAIN(RD1)
13	A-1154-029-A		FFC TOUCH PAD(RD1)
17	A-1154-027-A		FFC POWER SW-MAIN(RD1)
18	-		KAPTON TAPE
19	-		DRAFTING TAPE
B1	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B2	3-719-381-22		SCREW (M2X6)
B3	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	3-078-890-21		SCREW, TAPPING
B5	3-713-791-05		SCREW (M1.7)

| Ref.No. | Part No. | | | Description | J | | AM | | | | | | | | EU | | | AO | | | | | | | |

M-1.Main Board



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M-1.Main Board

Ref. No.	Part No.			Description
302	A-1143-864-A	$		COMPLETE BOARD CNX-339
304	A-1143-861-A	$	#	COMPLETE BOARD MBX-145
307	1-417-539-12		#	MODEM CARD
308	X-2103-075-1			RD1 ASSY PCMCIA DOOR
* 309	2-652-079-01			RD1 VGA BRACKET
312	A-1153-213-A	$		RD1 COOLING UNIT
315	2-667-277-01			THERMAL SHEET CPU(S)
316	2-667-276-01			THERMAL SHEET GMCH(S)
317	2-669-954-01			RD1 PCMCIA GASKET
B1	4-672-836-11			SCREW ,M2 SPECIAL HEAD,EG GRIP

	Ref.No.	Part No.		Description	J			AM							EU			AO													
					FJ10B	FJ90PS*	FJ90S*	FJ170P/B	FJ170/B	FJ150W	FJ160P/G	FJ160P/L	FJ160P/R	FJ180P/W	FJ150F	FJ170Q/B	FJ1S/W	FJ1SR/B	FJ1Z/W	FJ58C/B	FJ58C/W	FJ57C/B	FJ57C/G	FJ57C/L	FJ57C/R	FJ57C/W	FJ56C/W	FJ58GP	FJ58SP	FJ57GP	FJ57LP	FJ57TP	FJ56G	FJ55L
	305	6-707-352-01	#	IC HYS64T32000HDL-5-A	●	●	●																										
		6-707-350-01	#	IC HYS64T64020HDL-5-A		●	●													●	●	●											
		1-758-515-01	#	IC MT47H64M16HR-25E:G				●	●	●				●	●	●			●														
⚠[MA]		6-708-617-01	#	IC M470T6554CZ3-CD5							●	●	●					●															
	306	6-707-258-01		IC RH80536GE0302MSL7SA		●	●	●	●	●				●	●	●		●	●	●	●	●	●	●	●	●		●	●	●	●	●	
		6-707-259-01		IC RH80536GE0362MSL7S9							●	●	●																				
		6-707-260-01		IC RH80536GE0412MSL7SM		●	●																										
		6-708-173-01		IC RH80536GE0512MSL7VB		●	●																										
		6-708-557-01		IC RH80536NC0171MSL8ML	●	●	●																				●					●	●
	314	1-789-014-23	#	CARD,WIRELESS LAN	●																												
		1-761-864-51	#	WIRELESS LAN CARD				●	●	●	●	●	●	●	●	●																●	
		1-761-864-64	#	WIRELESS LAN CARD		●	●																										
		1-761-864-71	#	WIRELESS LAN CARD													●	●	●	●	●	●	●	●	●	●		●	●	●	●		
⚠[MA]		1-789-014-32	#	CARD,WIRELESS LAN																							●					●	●
											△[MA]	△[MA]	△[MA]				△[MA]			△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]	△[MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.
- When change the CPU (ref. 306), refer to "Replacing the CPU" in CHAPTER 5.

- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。
- CPU（Ref. 306）を交換する際には，CHAPTER 5の「Replacing the CPU」をご参照下さい。

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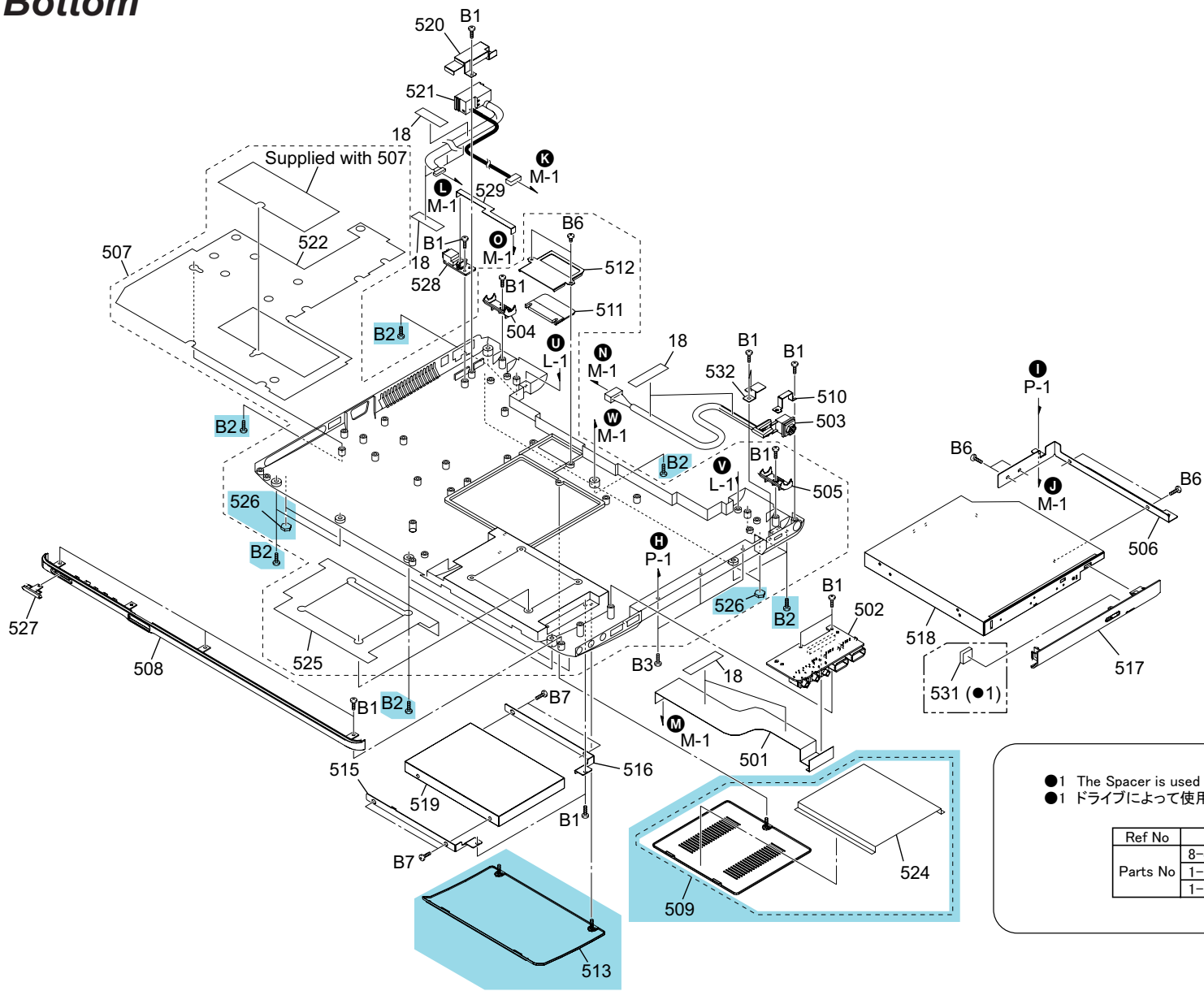
B-1. Bottom



●1 The Spacer is used that is different depending on the Drive
●1 ドライブによって使用するスペーサーが異なります。

Ref No	518	531
Parts No	8-457-665-60	–
	1-797-270-31	2-667-112-01
	1-797-277-11	2-667-111-01

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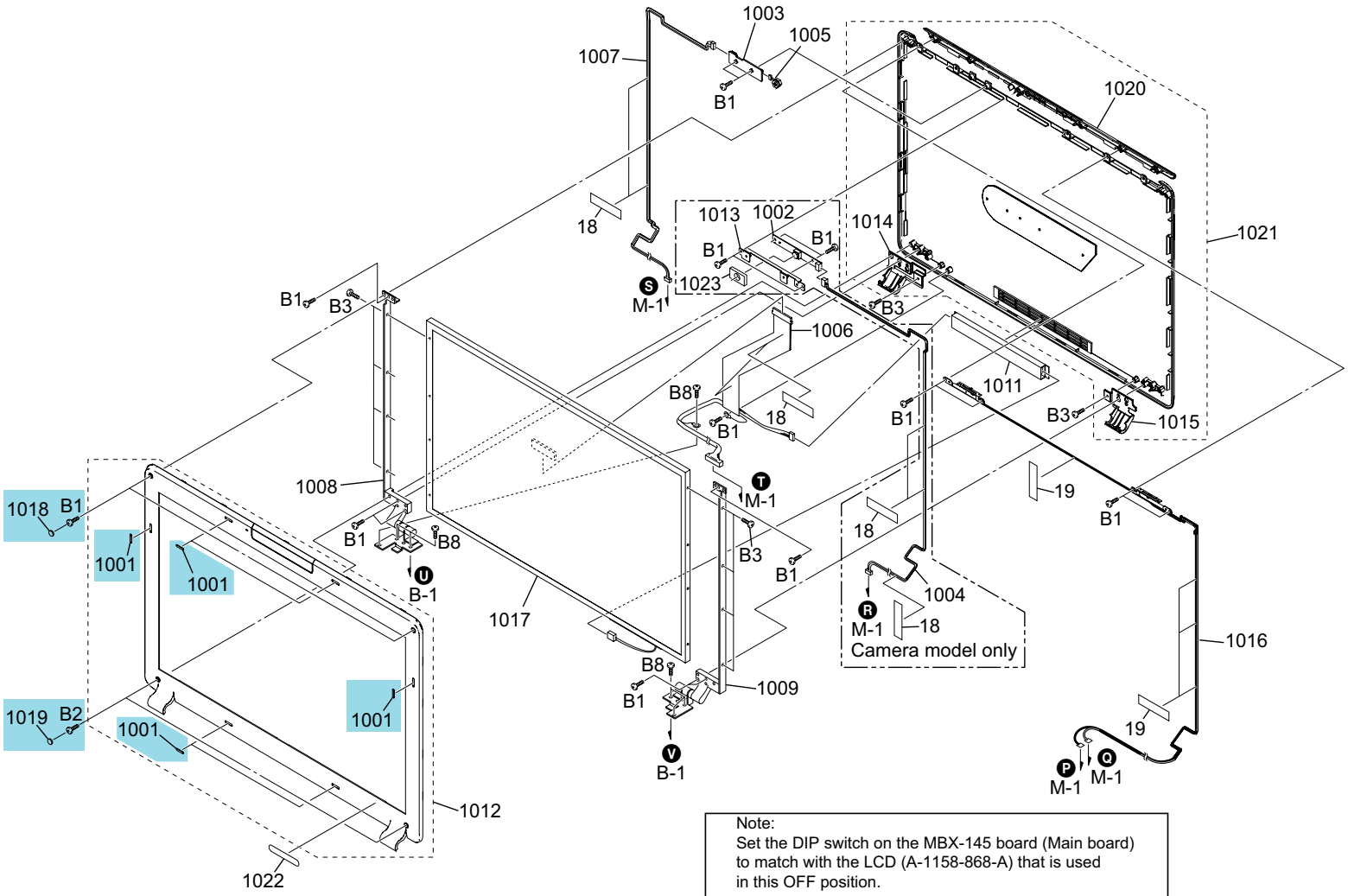
B-1. Bottom

Ref. No.	Part No.			Description
18	-			KAPTON TAPE
501	A-1154-023-A			FPC AUDIO-MAIN(RD1)
502	A-1143-862-A	$		COMPLETE BOARD ANL-63
503	A-1154-013-A			HARNESS DC JACK(RD1)
504	2-655-873-01			HINGE UNDER PLATE -L
505	2-655-874-01			HINGE UNDER PLATE -R
* 506	2-650-014-01			ODD BRACKET
507	X-2103-076-1			RD1 ASSY HOUSING BOTTOM
508	X-2103-073-1			RD1 ASSY HOUSING FRONT COVER
509	2-650-074-01		&	RD1 RAM DOOR
* 510	2-652-080-01			RD1 DC JACK BRACKET
511	2-650-077-01			RD1 PR DOOR
* 512	2-650-078-01			RD1 PR DOOR HOLDER
513	2-650-073-01		&	RD1 HDD DOOR
* 515	2-655-865-01			RD1 HDD BRACKET FRONT
* 516	2-655-866-01			RD1 HDD BRACKET REAR
517	X-2102-993-1			RD1 ODD BEZEL(GBAS)ASSY
* 520	2-650-013-01			RJ11-RJ45 BKT
521	A-1154-014-A			HARNESS RJ-11/45(RD1)
522	2-650-076-01			RD1 HOUSING BOTTOM MYLAR
524	2-655-867-01			RD1 RAM DOOR MYLAR
525	2-652-083-01			RD1 HDD MYLAR
526	2-650-075-01		&	RD1 RUBBER FOOT
527	2-652-078-01			WIRELESS KNOB
528	A-1143-865-A	$		COMPLETE BOARD CNX-344
529	A-1154-024-A			FPC ILINK-MAIN(RD1)
532	2-669-946-01			RD1 KENSINGTON BRACKET
B1	4-672-836-11			SCREW ,M2 SPECIAL HEAD,EG GRIP
B2	3-719-381-22		&	SCREW (M2X6)
B3	4-672-836-01			SCREW ,M2 SPECIAL HEAD,EG GRIP
B6	4-671-538-01			SCREW(M2X4), SPECIAL HEAD
B7	4-673-018-02			SCREW SPECIAL HEAD

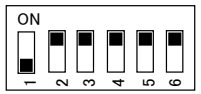
| Ref.No. | Part No. | | | Description | J | | AM | | | | | | | EU | | | AO | | | | | | |

L-1. LCD



Note:
Set the DIP switch on the MBX-145 board (Main board) to match with the LCD (A-1158-868-A) that is used in this OFF position.

注:
MBX-145 Board (メインボード)のDIP スイッチは、下図のように本機で使用するLCD(A-1158-868-A)に合わせて設定します。



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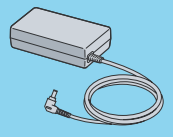
L-1. LCD

Ref. No.	Part No.			Description
18	-			KAPTON TAPE
19	-			DRAFTING TAPE
1001	2-650-020-01		&	BEZEL RUBBER
1003	A-1143-863-A	$		COMPLETE BOARD ANL-64
1005	A-1154-004-A			HARNESS INTERNAL MIC
1006	A-1154-012-A			HARNESS LCD(RD1)
1007	A-1154-005-A			HARNESS MIC BOARD-MAIN
* 1008	2-650-024-01			HINGE ASSY L
* 1009	2-650-023-01			HINGE ASSY R
1011	1-478-976-11			INVERTER UNIT
1014	2-655-880-01			RD1 HINGE COVER-LEFT
1015	2-655-881-01			RD1 HINGE COVER-RIGHT
1016	A-1154-006-A			WLAN-ANTENNA-RD
1017	A-1158-868-A	$	#	ASSYLCD 14WXGA(S)
1018	2-650-021-01		&	BEZEL SCREW RUBBER-A
1019	2-650-022-01		&	BEZEL SCREW RUBBER-B
B1	4-672-836-11		<&>	SCREW ,M2 SPECIAL HEAD,EG GRIP
B2	3-719-381-22		&	SCREW (M2X6)
B3	4-672-836-01			SCREW ,M2 SPECIAL HEAD,EG GRIP
B8	7-627-556-28			SCREW +P 2.6X3.5

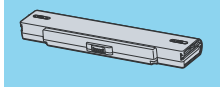
| Ref.No. | Part No. | Description | J | | AM | | | | | | EU | | AO | | | | | |

A-1. Accessories

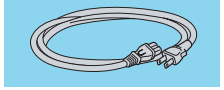
2001
AC Adaptor



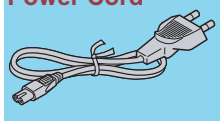
2002
Battery



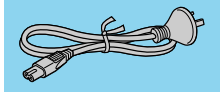
2005
Power Cord



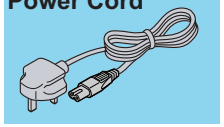
2006
Power Cord



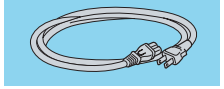
2007
Power Cord



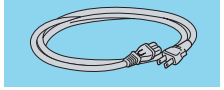
2008
Power Cord



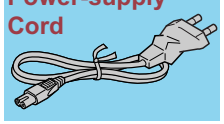
[MA]
2009
Power Cord



2010
Power Cord

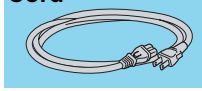


[MA]
2011
Power-supply Cord

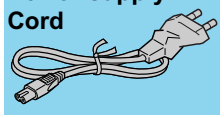


[MA]
2014
Power-supply Cord

2015
Power-supply Cord

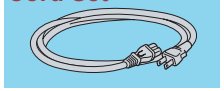


2016
Power-supply Cord

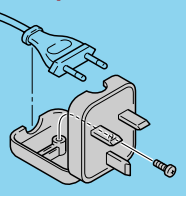


[MA]
2017
Power-supply Cord

[MA]
2018
Power-supply Cord Set



[MA]
2019
Conversion Plug 3P Adaptor



| Ref.No. | Part No. | | | Description | J | | AM | | | | | | | | EU | | | AO | | | | | | | |

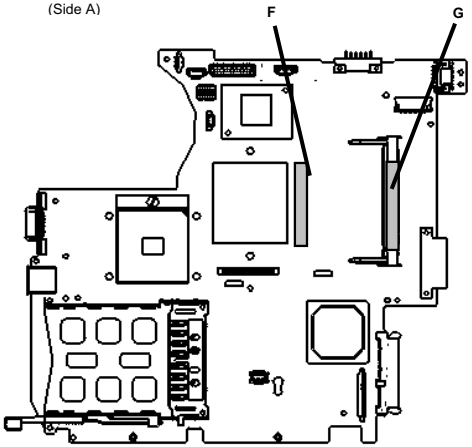
CHAPTER 5.
OTHER

5-1. The Barcode Label

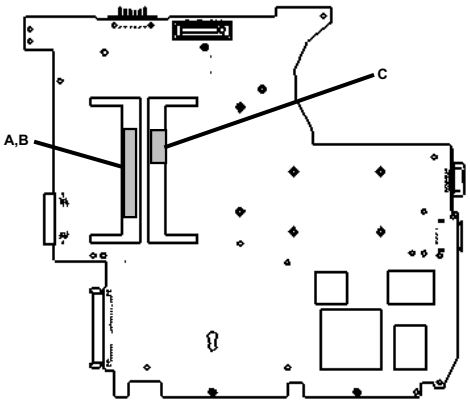
The hatched portion of the barcode is used as the repair data.

バーコードラベルの網掛け部は，修理データとして使用いたします。

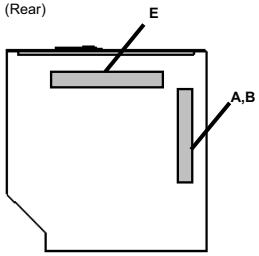
[MBX-145 Board]
(Side A)



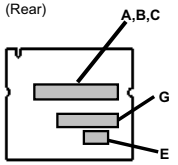
[MBX-145 Board]
(Side B)



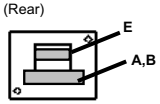
[Drive]
(Rear)



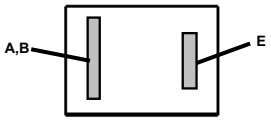
[W-LAN Card]
(Rear)



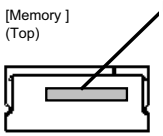
[MODEM Card]
(Rear)



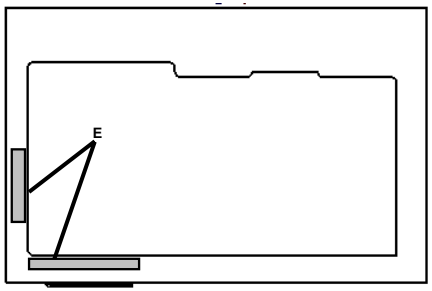
[HDD (FUJITSU)]
(Top)



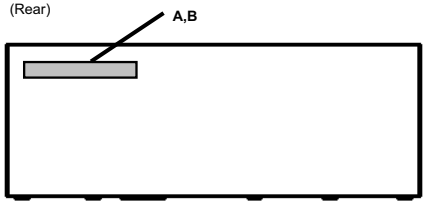
[Memory]
(Top)



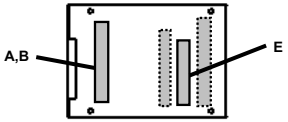
[LCD Unit]
(Rear)



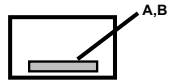
[Keyboard Unit]
(Rear)



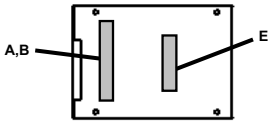
[HDD (HITACHI)]
(Top)



[ANT]



[HDD (TOSHIBA)]
(Top)



A : Part No.
B : Serial No.
C : Revision No.
D : Product Code
E : Maker Barcode
F : Global User ID (iLink)
G : Mac Address

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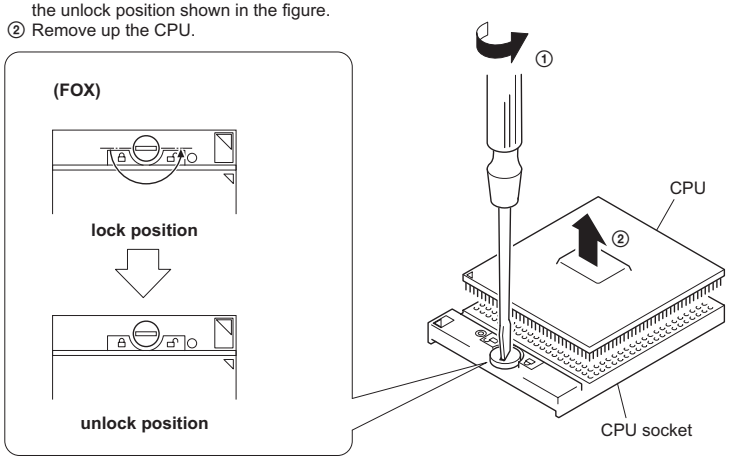
5-2. Replacing the CPU

Note: We have two kinds of CPU for this set, and either of them is used.
Two kinds of CPU have differences in the lock position and the unlock position.

1. Socket configuration 1

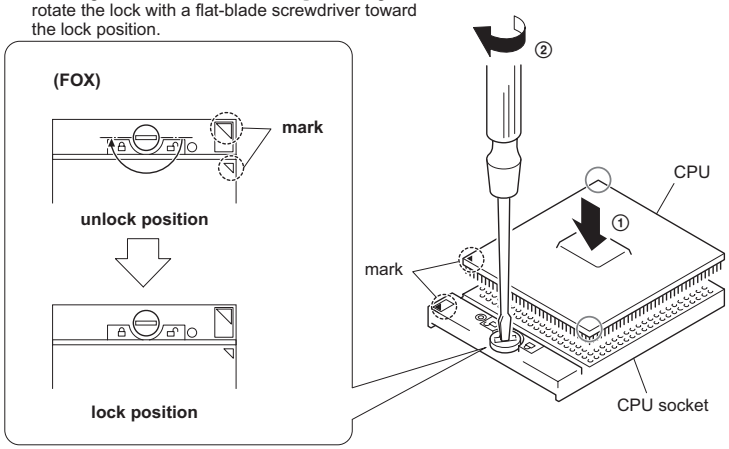
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.



2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.

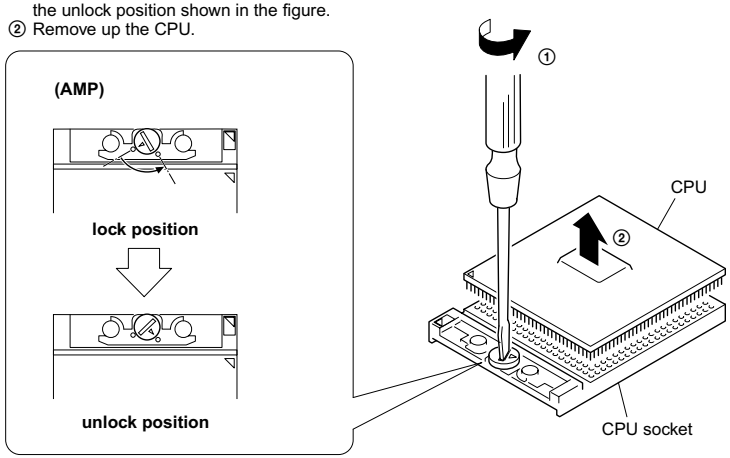


Note: Lock the CPU properly, or operation becomes unstable.

2. Socket configuration 2

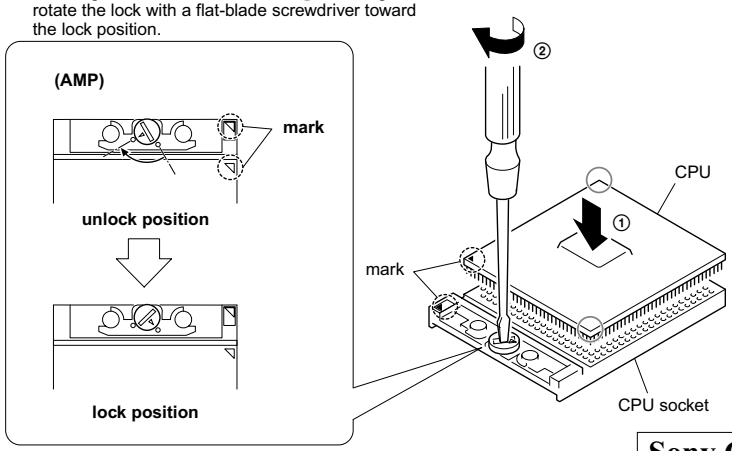
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.



2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.



Note: Lock the CPU properly, or operation becomes unstable.

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VGN-FJ10B/FJ90PS/FJ90S (J)
VGN-FJ150/FJ150F/FJ170/FJ170P/FJ170Q/FJ180P (AM)
VGN-FJ1S/FJ1SR/FJ1Z (EU)
VGN-FJ55L/FJ56C/FJ56G/FJ57C/FJ57GP/FJ57LP/FJ57SP/FJ57TP/FJ58C/FJ58GP/FJ58SP (AO)

List of VGN-FJ Series (As of November, 2005)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-434-XX	VGN-FJ10B	VGN-FJ150/W		VGN-FJ55L ☜
	VGN-FJ90PS*	VGN-FJ150F		VGN-FJ56C/W ☜
	VGN-FJ90S*	VGN-FJ170/B	VGN-FJ1S/W	VGN-FJ56G ☜
		VGN-FJ170P/B	VGN-FJ1SR/B ☜	VGN-FJ57C/B ☜
		VGN-FJ170Q/B	VGN-FJ1Z/W	VGN-FJ57C/G ☜
		VGN-FJ180P/G ☜		VGN-FJ57C/L ☜
		VGN-FJ180P/L ☜		VGN-FJ57C/R ☜
		VGN-FJ180P/R ☜		VGN-FJ57C/W ☜
		VGN-FJ180P/W		VGN-FJ57GP ☜
				VGN-FJ57LP ☜
				VGN-FJ57SP ☜
				VGN-FJ57TP ☜
				VGN-FJ58C/B ☜
				VGN-FJ58C/W ☜
				VGN-FJ58GP ☜
				VGN-FJ58SP ☜

* : CTO Model
☜ : Additional Models

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English/Japanese
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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2005.10.17	First Edition	
-02	Ver. 2	2005.11.10	△1 Front Page (Model Lineup), Page 1-1 to 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9 to 4-10, Back Cover	N2005_062AK
<Remarks>				